

DELAWDER COMMUNICATIONS, INC.

2121 Eisenhower Avenue, Suite 200

Alexandria, Virginia 22314

(703) 299-9222

ENGINEERING REPORT

Federated Rural Electric Association
Jackson, MN (K45EH, Channel 45+ Major Modification)

EXHIBIT 7 - ENVIRONMENTAL STATEMENT

This proposal does not involve a site location specified under Section 1.1307(a) through (a)(8) of the FCC Rules.

Assuming: (a) a maximum ERP of 3.00 kilowatts and circular polarization (for approximately 6.3 kW total with aural carrier); (b) a relative field of less than 0.4 in the critical downward angles; and (c) a distance of at least 85 meters from the lowest antenna element to 2 meters above ground level, the maximum power density is calculated as follows:

$$S = 33.4 (F)(F)(ERP) / [(R)(R)]$$

Where, S equals power density in uW/cm²
 F equals the relative field factor
 ERP equals the effective radiate power in watts
 R equals the distance in meters

$$= 33.4 (0.4)(0.4)(6,300) / [(85)(85)]$$

$$= 4.7 \text{ uW/cm}^2$$

4.7 uW/cm² represents less than 2% of the uncontrolled power density limit (439 uW/cm²). The electromagnetic radiation from this proposed operation will not produce a value in excess of the radiation standard. The electromagnetic radiation from the proposed operation will not combine with other facilities on or near the structure to produce a significant change in value.

If this is a structure that may support various other operations, the applicant will cooperate with the other operators in establishing a plan for work done on the structure in close proximity to the existing antenna.